

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1. (Previously Presented) An apparatus for controlling opening and closing of a folder in a foldable mobile communication terminal having a main body and a sub-body foldably mounted on the main body, said sub-body being opened or closed either automatically or manually in compliance with a user's selection, said apparatus comprising:

a sensor means arranged at one end of the main-body and the sub-body, for detecting a fully open status or a fully closed status of the sub-body on the main-body;

a sub-body opening and closing drive unit for automatically opening or closing the sub-body by means of activating a sub-body drive motor rotatably coupled with said one end of the sub-body, under control of a control unit;

a current sensing unit coupled to the control unit for sensing an amount of motor drive current applied to the sub-body drive motor and providing the sensed amount of motor drive current to the control unit; and

said control unit for taking a measurement of the amount of the motor drive current output from said current sensing unit upon enabling of an automatic opening or closing operation of the sub-body in the sub-body opening and closing drive unit in compliance with the user's selection of automatic sub-body control, and for discontinuing to drive the sub-body drive motor when the measured amount of the motor drive current is larger than a predetermined current threshold value and the sensor means senses one of a fully open status and a fully closed status of the sub-body and discontinuing to drive the sub-body drive motor after driving the sub-body drive motor for at least more than one cycle of the motor when the measured amount of the motor drive current is larger than the predetermined current threshold value and the sensor means senses neither one of a fully open status and a fully closed status of the sub-body.

Claim 2. (Original) The apparatus as claimed in claim 1, wherein said sensor means further comprises:

- a first magnet disposed in a hinge rotatably connected to one end of the sub-body and the main-body, said hinge being provided with the sub-body opening and closing drive unit;

- a second magnet mounted inwardly on an inner surface of the sub-body, spaced apart from the hinge;

- an opening sensor disposed, in the vicinity of the hinge, on one end of a lower surface of a printed circuit board inside the main-body, for providing the control unit with a first sensing signal indicating a fully open status of the sub-body from the main-body, when the first magnet is placed in close proximity to the opening sensor; and

- a closing sensor disposed in a position opposing to the second magnet, spaced apart from the hinge, on the printed circuit board inside the main-body, for providing the control unit with a second sensing signal indicating a fully closed status of the sub-body onto the main-body, when the second magnet is placed in close proximity to the closing sensor.

Claim 3. (Previously Presented) A method for controlling automatic opening and closing of a folder in a foldable mobile communication terminal having a main body, a sub-body foldably mounted on the main body, a sensor means for detecting a fully open status or a fully closed status of the sub-body with respect to the main-body, and a sub-body opening and closing drive unit for automatically opening or closing the sub-body by activating a sub-body drive motor, under control of a control unit, the method comprising the steps of;

- taking a measurement of an amount of motor driving current applied to the sub-body drive motor when there is an activation of the sub-body opening and closing drive unit to drive the sub-body drive motor for opening or closing the sub-body in compliance with a user's selection to automatic opening or closing by a switch;

- discontinuing to drive the sub-body drive motor when the measured amount of

motor driving current is greater than a predetermined current threshold value and the sensor means detects one of a fully open status and a fully closed status of the sub-body; and,

discontinuing to drive the sub-body drive motor after driving the sub-body drive motor for at least more than one cycle of the motor when the measured amount of the motor drive current is greater than the predetermined current threshold value and the sensor means senses neither one of a fully open status and a fully closed status of the sub-body.

Claim 4. (Original) The method as claimed in claim 3, wherein the measurement of the amount of motor driving current is carried out in a period of several tens of milliseconds.